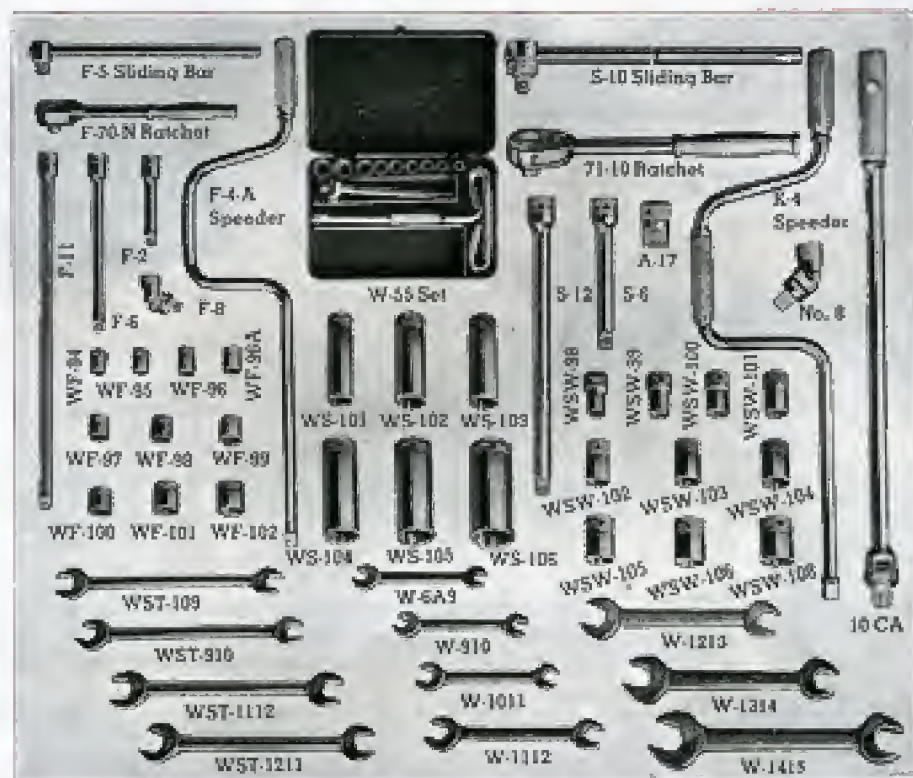


# Snap-on—Blue-Point Tools

The Finest Quality Wrenches That Modern Skill and Equipment Can Produce—Now Offered in Whitworth Standards

**A**LL the Whitworth sizes mentioned on these pages are for Engineer's Standard Size Heads and Nuts, and are suitable for a larger size in Auto Whitworth and British Standard Fine Nuts, i.e.,  $\frac{1}{2}$ " Standard Whitworth will fit  $\frac{3}{16}$ " Auto Whitworth and British Standard Fine Nuts.

## W-555 "Progressive" Nut Turning Set



CONTAINS: W-55 Midget Set, W-85 Ferret Set (See page 2) and F-22-A Screw Driver.

Master items as follows: Sockets as per table No. 3, excepting No. WSW-107; Extra Deep Sockets as per table No. 4, sizes WS-101 to WS-106 inclusive.

Handle Equipment: S-10 Sliding Tee, 71-10 Ratchet, 10-CA Nut Spinner, S-12 Extension Bar, S-6 Extension Bar, No. 8 Universal Joint, A-17 Screw Driver, K-4 Speeder.

Tappet Wrenches: WST-910, WST-109, WST-1112, WST-1211. Blue-Point Standard Spanner Wrenches: W-6A9 to W-1415 inclusive.

This set can be supplied with or without the K-11 Master HandiKit illustrated.



# "Midget" Sets

(9/32" Square Drive)

## W-55 Midget Set



### W-55 Set

W-55 Midget Set containing 11 units, including 9 sockets (shown in table No. 1 on page 3) and 2 handles. Complete in metal case as illustrated.

### W-58 Set

W-58 Midget Set containing 9 sockets (as shown in table No. 1 on page 3), 4 handles, extension bar, and screw driver, complete in metal case as illustrated.

## W-58 Midget Set



# "Ferret" Sets

(3/8" Square Drive)

### W-85-A Set

W-85-A Set (illustrated) containing 10 sockets as listed in table No. 2 on page 3. Also four handles, three extension bars, universal joint, and screwdriver. This set can be supplied with or without the No. 80-B Metal Box illustrated.

### W-85 Set

W-85 Set contains the same selection of tools as the No. W-85-A Set but omitting the F-10-A Nut Spinner Handle and the F-22-A Screw Driver Socket. This set can also be supplied with or without the No. 80-B Metal Box.

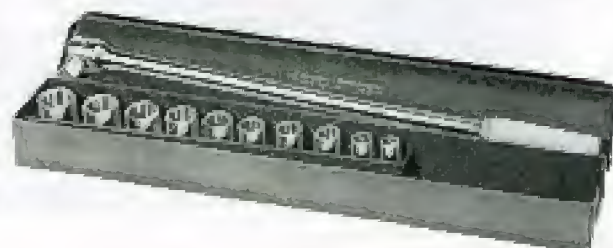
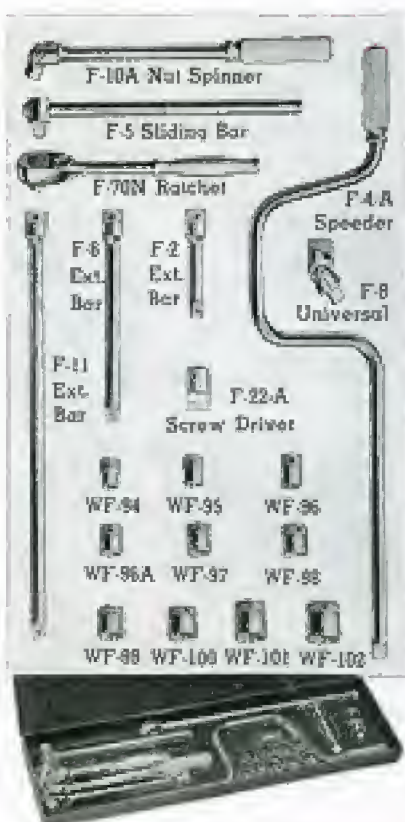
# "Master" Nut Spinner Sets

(1/2" Square Drive)

These sets give you more wrenches for a small investment than any other. W-25-CA Set with 18" handle, consisting of all sockets in table No. 3 excepting WSW-107.

W-25-DA Set with 15" handle, consisting of all sockets in table No. 3 excepting WSW-107.

These sets can be supplied with or without the No. 4-B Metal Case as illustrated.





# Whitworth Socket Wrenches

**S**NAP-ON-SOCKETS are machined from solid bars of electric furnace high carbon alloy tool steel . . . hot broached to provide the greatest accuracy and to assure the greatest possible strength for the socket walls. There is no comparison between the lasting qualities of a Snap-on and the ordinary make of socket wrench.



## Midget Series Hexagon Socket Wrenches (9/32" Square Drive)

TABLE 1

| Stock No. | Whitworth Bolt Size | Nominal Wrench Opening | Outside Diameter |            | Overall Length |
|-----------|---------------------|------------------------|------------------|------------|----------------|
|           |                     |                        | Socket End       | Handle End |                |
| WM-91     | 7BA                 | .172"                  | .313"            | 1/2"       | 3/4"           |
| WM-92     | 6BA                 | .193"                  | .313"            | 1/2"       | 3/4"           |
| WM-93     | 5BA                 | .220"                  | .353"            | 1/2"       | 3/4"           |
| WM-94     | 4BA                 | .248"                  | .388"            | 1/2"       | 3/4"           |
| WM-95     | 3BA                 | .282"                  | .430"            | 1/2"       | 3/4"           |
| WM-96     | 2BA                 | .324"                  | .472"            | 1/2"       | 3/4"           |
| WM-96A    | 1/4"                | .338"                  | .500"            | 1/2"       | 3/4"           |
| WM-97     | 1BA                 | .365"                  | .542"            | 3/4"       | 3/4"           |
| WM-98     | OBA                 | .413"                  | .605"            | 3/4"       | 3/4"           |

## Ferret Series

### Double Hexagon Sockets



TABLE 2 (3/4" Square Drive)

| Stock No. | Whitworth Bolt Size | Nominal Wrench Opening | Outside Diameter |            | Overall Length |
|-----------|---------------------|------------------------|------------------|------------|----------------|
|           |                     |                        | Socket End       | Handle End |                |
| WF-94     | 4BA                 | .248"                  | .438"            | 3/4"       | 29/64"         |
| WF-95     | 3BA                 | .282"                  | .470"            | 3/4"       | 29/64"         |
| WF-96     | 2BA                 | .324"                  | .500"            | 3/4"       | 29/64"         |
| WF-96A    | 1/4"                | .338"                  | .540"            | 3/4"       | 29/64"         |
| WF-97     | 1BA                 | .365"                  | .540"            | 3/4"       | 29/64"         |
| WF-98     | OBA                 | .413"                  | .609"            | 3/4"       | 29/64"         |
| WF-99     | 3/8"                | .448"                  | .609"            | 3/4"       | 29/64"         |
| WF-100    | 1/2"                | .525"                  | .750"            | 3/4"       | 29/64"         |
| WF-101    | 3/8"                | .600"                  | .812"            | 1 1/8"     | 15/16"         |
| WF-102    | 1/2"                | .710"                  | 1.000"           | 1"         | 1"             |

## Master Series

### Double Hexagon Straight-Walled Sockets

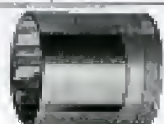


TABLE 3 (1/2" Square Drive)

| Stock No. | Whitworth Bolt Size | Nominal Wrench Opening | Outside Diameter |            | Overall Length |
|-----------|---------------------|------------------------|------------------|------------|----------------|
|           |                     |                        | Socket End       | Handle End |                |
| WSW-98    | OBA                 | .413"                  | .590"            | 7/8"       | 1 1/4"         |
| WSW-99    | 3/8"                | .448"                  | .625"            | 7/8"       | 1 1/4"         |
| WSW-100   | 1/2"                | .525"                  | .741"            | 1 1/8"     | 1 1/2"         |
| WSW-101   | 3/8"                | .600"                  | .828"            | 1 1/8"     | 1 1/2"         |
| WSW-102   | 1/2"                | .710"                  | .947"            | 1 1/8"     | 1 1/2"         |
| WSW-103   | 3/8"                | .820"                  | 1.125"           | 1 1/8"     | 1 1/2"         |
| WSW-104   | 1/2"                | .920"                  | 1.250"           | 1 1/8"     | 1 1/2"         |
| WSW-105   | 3/8"                | 1.010"                 | 1.312"           | 1 1/8"     | 1 1/2"         |
| WSW-106   | 1/2"                | 1.100"                 | 1.500"           | 1 1/8"     | 1 1/4"         |
| WSW-107   | 3/8"                | 1.200"                 | 1.625"           | 1 1/8"     | 2"             |
| *WSW-108  | 1/2"                | 1.300"                 | 1.750"           | 1 1/8"     | 2"             |

\*Made Special to Order Only.

## Master Series

### Extra Deep Hexagon Sockets

TABLE 4 (1/2" Square Drive)

| Stock No. | Whitworth Bolt Size | Nominal Wrench Opening | Outside Diameter |            | Overall Length |
|-----------|---------------------|------------------------|------------------|------------|----------------|
|           |                     |                        | Socket End       | Handle End |                |
| WS-99     | 3/8"                | .448"                  | .689"            | 3/4"       | 3 1/4"         |
| WS-100    | 1/2"                | .525"                  | .800"            | 3/4"       | 3 1/4"         |
| WS-101    | 3/8"                | .600"                  | .890"            | 3/4"       | 3 1/4"         |
| WS-102    | 1/2"                | .710"                  | 1.010"           | 1"         | 3 1/4"         |
| WS-103    | 3/8"                | .820"                  | 1.125"           | 1 1/8"     | 3 1/4"         |
| WS-104    | 1/2"                | .920"                  | 1.250"           | 1 1/8"     | 3 1/4"         |
| WS-105    | 3/8"                | 1.010"                 | 1.312"           | 1 1/8"     | 3 1/4"         |
| WS-106    | 1/2"                | 1.100"                 | 1.500"           | 1 1/8"     | 3 1/2"         |



## Heavy Duty Series

### Double Hexagon Straight Walled Sockets



TABLE 5 (1/2" Square Drive)

| Stock No. | Whitworth Bolt Size | Nominal Wrench Opening | Outside Diameter |            | Overall Length |
|-----------|---------------------|------------------------|------------------|------------|----------------|
|           |                     |                        | Socket End       | Handle End |                |
| WL-104    | 3/8"                | .920"                  | 1.375"           | 1 13/16"   | 2"             |
| WL-105    | 3/8"                | 1.010"                 | 1.440"           | 1 13/16"   | 2 3/16"        |
| WL-106    | 3/8"                | 1.100"                 | 1.625"           | 1 13/16"   | 2 3/16"        |
| *WL-107   | 1/2"                | 1.200"                 | 1.687"           | 1 13/16"   | 2 3/4"         |
| WL-108    | 3/8"                | 1.300"                 | 1.875"           | 1 13/16"   | 2 3/4"         |
| *WL-109   | 1/2"                | 1.390"                 | 1.937"           | 1 13/16"   | 2 3/4"         |
| WL-110    | 3/8"                | 1.480"                 | 2.093"           | 1 13/16"   | 2 3/4"         |
| *WL-111   | 1/2"                | 1.574"                 | 2.187"           | 1 13/16"   | 2 3/4"         |
| WL-112    | 1"                  | 1.670"                 | 2.375"           | 1 3/4"     | 2 3/4"         |
| WL-113    | 1 1/4"              | 1.860"                 | 2.562"           | 1 3/4"     | 3"             |
| WL-114    | 1 1/2"              | 2.050"                 | 2.875"           | 1 3/4"     | 3 1/4"         |

\*Made Special to Order Only.

## Handle Equipment



Round Handle Type



Flat Handle Type

Detachable Head Type . . .  
Bar Handle included as  
part of the complete tool



| Stock No. | Series     | Square Drive | Head Thickness | Overall Length | Type            |
|-----------|------------|--------------|----------------|----------------|-----------------|
| M-70N     | Midget     | 3/8"         | 3/8"           | 4 13/16"       | Round handle    |
| F-70N     | Ferret     | 3/8"         | 9/16"          | 6 13/16"       | Round handle    |
| 71-N      | Master     | 1/2"         | 3/4"           | 9 13/16"       | Flat handle     |
| 71-10     | Master     | 1/2"         | 3/4"           | 9 13/16"       | Round handle    |
| 71-15     | Master     | 1/2"         | 3/4"           | 15"            | Round handle    |
| L-72N     | Heavy Duty | 3/4"         | 1 1/8"         | 24 1/4"        | Detachable head |

## Extension Bars



| Stock Number | Series     | Square Drive | Shank Length |
|--------------|------------|--------------|--------------|
| M-2          | Midget     | 3/8"         | 2"           |
| M-60         | Midget     | 3/8"         | 6"           |
| F-1          | Ferret     | 3/8"         | 1 1/4"       |
| F-2          | Ferret     | 3/8"         | 3"           |
| F-6          | Ferret     | 3/8"         | 6"           |
| F-9          | Ferret     | 3/8"         | 8"           |
| F-11         | Ferret     | 3/8"         | 12"          |
| FX-20        | Ferret     | 3/8"         | 20"          |
| S-2          | Master     | 1/2"         | 2"           |
| S-6          | Master     | 1/2"         | 5"           |
| S-12         | Master     | 1/2"         | 10"          |
| S-20         | Master     | 1/2"         | 20"          |
| S-24         | Master     | 1/2"         | 24"          |
| L-32         | Heavy Duty | 3/4"         | 3"           |
| L-62         | Heavy Duty | 3/4"         | 8"           |
| L-122        | Heavy Duty | 3/4"         | 16"          |



# Every Type of Socket Wrench Handle

## Nut Spinner Handles

**THESE** Nut Spinner Handles provide great utility. The hinged socket receiving end allows you to clear obstructions and is fitted with a special

locking device that holds it firmly in one of five chosen positions or angles from the handle. The handles give plenty of leverage for pulling nuts up tight or breaking them loose.

Straighten out the hinge and you have a speeder for spinning them on or off. A hole is drilled through the knurled handle grip for use with a bar, and the Master Series handles are broached on the end with a  $\frac{1}{8}$ " square to receive offset, sliding tee or ratchet handles. Bars are not included with these tools. Use these handles to advantage on many jobs and save yourself a lot of hard work.



PAT. NO.  
2,020,581

| Stock Number | Series     | Square Drive    | Head Diam.        | Overall Length    |
|--------------|------------|-----------------|-------------------|-------------------|
| M-10CA       | Midget     | $\frac{3}{8}$ " | $\frac{5}{8}$ "   | 6"                |
| F-10A        | Ferret     | $\frac{3}{8}$ " | $\frac{5}{8}$ "   | 8 $\frac{1}{2}$ " |
| 10-CA        | Master     | $\frac{1}{2}$ " | 1 $\frac{1}{8}$ " | 18"               |
| 10-DA        | Master     | $\frac{1}{2}$ " | 1 $\frac{1}{8}$ " | 15"               |
| L-112        | Heavy Duty | $\frac{3}{4}$ " | 1 $\frac{3}{8}$ " | 21"               |

## Offset Handle

**NOTE** the compact design of the drive end. This tool will reach into many close places and simplify many otherwise difficult jobs. Electric furnace alloy steel,  $\frac{1}{8}$ " diameter round stock, providing powerful leverage and great strength to break loose those extra tight nuts and bolts.

| Stock Number | Series | Square Drive    | Head Depth        | Overall Length     |
|--------------|--------|-----------------|-------------------|--------------------|
| 1            | Master | $\frac{1}{4}$ " | 1 $\frac{3}{8}$ " | 11 $\frac{1}{4}$ " |

## Sliding Tee Handles



**COMBINATION** Sliding Tee and Offset Handles that can be used directly in combination with the sockets or with other handle and extension hook-ups.

A spring backed ball inside the head snaps into the center groove to make a practical Tee without preventing free action as a sliding bar. The head locks on either end of bar to form a practical offset handle with the head flush with the end of bar.

| Stock Number | Series     | Square Drive    | Head Depth        | Overall Length     |
|--------------|------------|-----------------|-------------------|--------------------|
| M-5          | Midget     | $\frac{3}{8}$ " | 1 $\frac{3}{8}$ " | 4 $\frac{1}{8}$ "  |
| F-5          | Ferret     | $\frac{3}{8}$ " | 1 $\frac{3}{8}$ " | 8"                 |
| S-10         | Master     | $\frac{1}{2}$ " | 1 $\frac{3}{8}$ " | 10"                |
| S-15         | Master     | $\frac{1}{2}$ " | 1 $\frac{3}{8}$ " | 15"                |
| L-52         | Heavy Duty | $\frac{3}{4}$ " | 2 $\frac{3}{8}$ " | 21 $\frac{1}{4}$ " |

## Universal Joints

**NOTE** the slender, compact design. Works freely at nearly a 90° angle. Now fitted with exclusive spring device which will hold the joint at any angle for easy application to the job, but which does not interfere with the swivel action of the tool in use. Built for a lifetime of service . . . Polished chrome finish.

| Stock Number | Series     | Square Drive    | Outside Diam.     | Overall Length    |
|--------------|------------|-----------------|-------------------|-------------------|
| MU-8         | Midget     | $\frac{3}{8}$ " | $\frac{5}{8}$ "   | 1 $\frac{3}{8}$ " |
| F-8          | Ferret     | $\frac{3}{8}$ " | $\frac{5}{8}$ "   | 1 $\frac{3}{8}$ " |
| F-80         | Ferret     | $\frac{1}{2}$ " | $\frac{5}{8}$ "   | 1 $\frac{3}{8}$ " |
| S            | Master     | $\frac{1}{2}$ " | 1 $\frac{3}{8}$ " | 2 $\frac{1}{8}$ " |
| L-82         | Heavy Duty | $\frac{3}{4}$ " | 1 $\frac{3}{8}$ " | 4 $\frac{1}{4}$ " |

## Swivel Grip Extension Bars



| Stock Number | Series | Square Drive    | Shank Length |
|--------------|--------|-----------------|--------------|
| SG-6         | Master | $\frac{1}{8}$ " | 6"           |
| SG-12        | Master | $\frac{1}{8}$ " | 12"          |

## Long Shank Speeder Tee Handles

**BUILT** for speedy nut turning work wherever extra long reaching power is called for. The tool can be used as a center tee handle or the cross bar can be slipped way to the end and used as an offset for greater leverage.

| Stock Number | Series | Square Drive    | Shank Length       | Handle Length     |
|--------------|--------|-----------------|--------------------|-------------------|
| F-3          | Ferret | $\frac{3}{8}$ " | 12"                | 6 $\frac{1}{4}$ " |
| F-19         | Ferret | $\frac{3}{8}$ " | 24"                | 8"                |
| 33           | Master | $\frac{1}{2}$ " | 29 $\frac{1}{4}$ " | 18"               |

## Knob Handles for Speeders

For the mechanic who prefers a knob type handle on his Speeder Wrench . . . the hard rubber knob slips over the knurled grip and provides a comfortable hand hold.

F-45-1—Fits Ferret Series Speeders.  
No. 45-1—Fits Master Series Speeders.

## Speeder Handles

**THESE** speeders are of improved design, with comfortable knurled swivel center grip and end grip—easy and handy to use. New stop collar on socket receiving end holds socket in positive position.

| Stock Number | Series | Square Drive    | Swivel Radius     | Shank Length       | Overall Length     |
|--------------|--------|-----------------|-------------------|--------------------|--------------------|
| F-4A         | Ferret | $\frac{3}{8}$ " | 3 $\frac{1}{4}$ " | 9 $\frac{1}{8}$ "  | 17 $\frac{3}{8}$ " |
| F-4B         | Ferret | $\frac{3}{8}$ " | 3 $\frac{1}{4}$ " | 15 $\frac{1}{8}$ " | 24"                |
| K-4          | Master | $\frac{1}{2}$ " | 4 $\frac{1}{8}$ " | 8 $\frac{1}{8}$ "  | 18 $\frac{1}{4}$ " |
| K-4-C        | Master | $\frac{1}{2}$ " | 4 $\frac{1}{8}$ " | 4 $\frac{1}{8}$ "  | 14 $\frac{1}{4}$ " |

## Speed Tee Handles

**PLENTY** of leverage for loosening or tightening nuts. Knurled swivel center grip permits easy, rapid spinning. New stop collar holds socket in positive position.

| Stock Number | Series | Square Drive    | Tee Width         | Shank Length |
|--------------|--------|-----------------|-------------------|--------------|
| M-3          | Midget | $\frac{3}{8}$ " | 3 $\frac{3}{8}$ " | 6"           |
| 3            | Master | $\frac{1}{2}$ " | 7 $\frac{1}{8}$ " | 12"          |

## Electricians Handles



| Stock Number | Series | Square Drive    | Handle Material | Overall Length    |
|--------------|--------|-----------------|-----------------|-------------------|
| M-4          | Midget | $\frac{3}{8}$ " | Hardwood        | 5 $\frac{1}{8}$ " |
| M-40         | Midget | $\frac{3}{8}$ " | Pyralth         | 3 $\frac{1}{8}$ " |

## Speeder Tee Handle

| Stock Number | Series | Square Drive    | Height            | Overall Length |
|--------------|--------|-----------------|-------------------|----------------|
| PC-5         | Ferret | $\frac{3}{8}$ " | 2 $\frac{1}{4}$ " | 6"             |



# Whitworth Standard Wrenches

**S**NAP-ON-AND-BLUE-POINT WRENCHES have long been recognized as the finest of their kind throughout the automotive and industrial trades of the world. To increase our service to mechanics who are engaged in work on British made

cars we now make available these series of Socket, Boxsocket and Open End Wrenches, manufactured to Whitworth standards. Every unit is guaranteed to give thorough satisfaction under long and hard shop usage.



## Blue-Point "Supreme" Open End Wrenches

### An Outstanding Spanner Wrench Development

**B**LUE-POINT "Supreme" Spanner Wrenches have been made possible by the development of a new alloy, high carbon, electric furnace steel, possessing qualities of strength, toughness, and fatigue resistance under hard usage that is not obtainable in any other wrenches of comparable design and weight. The use of this steel enables us to build lighter wrenches with thinner heads and narrower jaws, and yet, stronger than end wrenches were ever made before. Buy the wrench with this name and know what real tool satisfaction is.

| Stock Number | Whitworth Bolt Size                 | Nominal Wrench Opening | Head Thickness | Head Diameter   | Overall Length      |
|--------------|-------------------------------------|------------------------|----------------|-----------------|---------------------|
| WS-6A9       | $\frac{1}{8}$ " & $\frac{3}{16}$ "  | .338" & .448"          | .180"          | .781" & .937"   | 4 $\frac{1}{4}$ "   |
| WS-910       | $\frac{1}{8}$ " & $\frac{1}{4}$ "   | .448" & .525"          | .225"          | 1.000" & 1.187" | 6 $\frac{1}{4}$ "   |
| WS-1011      | $\frac{1}{8}$ " & $\frac{5}{16}$ "  | .525" & .600"          | .270"          | 1.187" & 1.281" | 6 $\frac{3}{4}$ "   |
| WS-1112      | $\frac{3}{16}$ " & $\frac{3}{8}$ "  | .600" & .710"          | .310"          | 1.250" & 1.500" | 7 $\frac{13}{16}$ " |
| WS-1213      | $\frac{3}{16}$ " & $\frac{7}{16}$ " | .710" & .820"          | .360"          | 1.531" & 1.750" | 9"                  |
| WS-1314      | $\frac{1}{2}$ " & $\frac{1}{2}$ "   | .820" & .920"          | .360"          | 1.531" & 1.750" | 9"                  |
| WS-1415      | $\frac{1}{2}$ " & $\frac{3}{4}$ "   | .920" & 1.010"         | .400"          | 1.875" & 2.062" | 10 $\frac{1}{4}$ "  |
| WS-1516      | $\frac{3}{4}$ " & $\frac{3}{4}$ "   | 1.010" & 1.100"        | .400"          | 1.875" & 2.062" | 10 $\frac{1}{4}$ "  |
| WS-1618      | $\frac{3}{4}$ " & $\frac{1}{2}$ "   | 1.100" & 1.300"        | .450"          | 2.187" & 2.687" | 11 $\frac{1}{2}$ "  |
| WS-1820      | $\frac{3}{4}$ " & $\frac{1}{2}$ "   | 1.300" & 1.480"        | .500"          | 2.312" & 2.625" | 15"                 |
| WS-1822      | $\frac{3}{4}$ " & 1"                | 1.300" & 1.670"        | .550"          | 2.968" & 3.283" | 15"                 |
| WS-2022      | $\frac{3}{4}$ " & 1"                | 1.480" & 1.670"        | .550"          | 2.968" & 3.283" | 15"                 |

## Blue-Point Standard Open End Wrenches



**B**LUE-POINT Open Ends fit comfortably in your hands . . . handles are flat with rounded edges. Also, even in the smaller sizes, the handles are long enough to give a good firm grip and plenty of leverage. Note the pear shaped jaws, correctly designed for greatest efficiency in operation. Milled .005 oversize for a neat fit that will not slip off the nut on a hard pull. You can't beat a Blue-Point Spanner.

| Stock Number | Whitworth Bolt Size                 | Nominal Wrench Opening | Head Thickness | Head Diameter   | Overall Length      |
|--------------|-------------------------------------|------------------------|----------------|-----------------|---------------------|
| W-6A9        | $\frac{1}{8}$ " & $\frac{3}{16}$ "  | .338" & .448"          | .205"          | .937" & 1.062"  | 4 $\frac{1}{4}$ "   |
| W-910        | $\frac{1}{8}$ " & $\frac{1}{4}$ "   | .448" & .525"          | .225"          | 1.000" & 1.125" | 5 $\frac{3}{8}$ "   |
| W-1011       | $\frac{1}{8}$ " & $\frac{5}{16}$ "  | .525" & .600"          | .250"          | 1.156" & 1.281" | 6 $\frac{1}{4}$ "   |
| W-1112       | $\frac{3}{16}$ " & $\frac{3}{8}$ "  | .600" & .710"          | .300"          | 1.312" & 1.500" | 6 $\frac{13}{16}$ " |
| W-1213       | $\frac{3}{16}$ " & $\frac{7}{16}$ " | .710" & .820"          | .330"          | 1.375" & 1.562" | 7 $\frac{3}{8}$ "   |
| W-1314       | $\frac{1}{2}$ " & $\frac{1}{2}$ "   | .820" & .920"          | .380"          | 1.750" & 2.000" | 8 $\frac{3}{8}$ "   |
| W-1415       | $\frac{1}{2}$ " & $\frac{3}{4}$ "   | .920" & 1.010"         | .500"          | 2.000" & 2.125" | 10 $\frac{1}{16}$ " |



## Midget Ignition Open End Wrenches

| Stock Number | Whitworth Bolt Size | Nominal Wrench Opening | Head Thickness | Head Diameter | Overall Length    |
|--------------|---------------------|------------------------|----------------|---------------|-------------------|
| WC-12        | 7BA & 6BA           | .172" & .193"          | .100"          |               | 2 $\frac{1}{2}$ " |
| WC-21        | 6BA & 7BA           | .193" & .172"          | .100"          | .406"         | 2 $\frac{1}{2}$ " |
| WC-34        | 5BA & 4BA           | .220" & .248"          | .110"          |               | 2 $\frac{1}{2}$ " |
| WC-43        | 4BA & 5BA           | .248" & .220"          | .110"          | .500"         | 2 $\frac{1}{2}$ " |
| WC-56        | 3BA & 2BA           | .282" & .324"          | .110"          |               | 3 $\frac{1}{4}$ " |
| WC-65        | 2BA & 3BA           | .324" & .282"          | .110"          | .625"         | 3 $\frac{1}{4}$ " |
| WC-78        | 1BA & 0BA           | .365" & .413"          | .135"          |               | 3 $\frac{1}{2}$ " |
| WC-87        | 0BA & 1BA           | .413" & .365"          | .135"          | .750"         | 3 $\frac{1}{2}$ " |

**M**IDGET size Open End Wrenches that make easy work of all those tricky ignition, carburetor, radio, electrical jobs, etc. Made in pairs with two different sizes on each wrench, and each size duplicated on a separate wrench and at a different angle, so that you have all the wrench openings available in both the 45° and straight-with-the-handle positions.

## Blue-Point "Supreme" Tappet Wrenches



**M**ADE in pairs with two different sizes on each wrench and a straight and angle head in each size. The most practical and efficient wrenches ever offered for tappet work.

| Stock Number | Whitworth Bolt Size                | Nominal Wrench Opening | Head Thickness | Head Diameter   | Overall Length    |
|--------------|------------------------------------|------------------------|----------------|-----------------|-------------------|
| WST-910      | $\frac{1}{8}$ " & $\frac{1}{4}$ "  | .448" & .525"          | .170"          | 1.031" & 1.156" | 8 $\frac{1}{4}$ " |
| WST-109      | $\frac{3}{16}$ " & $\frac{3}{8}$ " | .525" & .448"          | .170"          | 1.156" & 1.031" | 8 $\frac{1}{4}$ " |
| WST-1112     | $\frac{1}{2}$ " & $\frac{3}{8}$ "  | .600" & .710"          | .186"          | 1.312" & 1.406" | 8 $\frac{1}{4}$ " |
| WST-1211     | $\frac{3}{8}$ " & $\frac{1}{2}$ "  | .710" & .600"          | .186"          | 1.406" & 1.312" | 8 $\frac{1}{4}$ " |



# Whitworth Boxocket Wrenches

## Short Handle Combination Wrenches



**D**ESIGNED with a Boxocket opening at one end and a spanner of the same size at the other, these new type wrenches offer decided advantages over the single type wrench. The Boxocket end comes in mighty useful for breaking tight nuts loose or pulling them tight and the spanner for fast turning work. This short handled series cannot be equaled for close quarter work, and the double duty handles give you a Boxocket set and an Open End set for the price of one set.

| Stock Number | Whitworth Bolt Size | Nominal Wrench Opening | Head Diameter |          | Overall Length |
|--------------|---------------------|------------------------|---------------|----------|----------------|
|              |                     |                        | Box End       | Open End |                |
| WOEX-8A      | 3/8"                | .338"                  | .500"         | .811"    | 5 1/2"         |
| WOEX-9       | 1/2"                | .500"                  | .500"         | .811"    | 5 3/4"         |
| WOEX-10      | 5/8"                | .608"                  | .608"         | .927"    | 5 3/4"         |
| WOEX-11      | 3/4"                | .710"                  | .695"         | 1.050"   | 5 3/4"         |
| WOEX-12      | 7/8"                | .820"                  | .782"         | 1.188"   | 6"             |
| WOEX-13      | 1"                  | .920"                  | .865"         | 1.283"   | 6 1/2"         |
| WOEX-14      | 1 1/8"              | 1.010"                 | .950"         | 1.395"   | 6 3/4"         |



## Long Handle Combination Wrenches

| Stock Number | Whitworth Bolt Size | Nominal Wrench Opening | Head Diameter |          | Overall Length |
|--------------|---------------------|------------------------|---------------|----------|----------------|
|              |                     |                        | Box End       | Open End |                |
| WOEX-9       | 1/2"                | .500"                  | .743"         | 1.050"   | 7 1/4"         |
| WOEX-10      | 5/8"                | .608"                  | .813"         | 1.168"   | 8 1/4"         |
| WOEX-11      | 3/4"                | .710"                  | .893"         | 1.281"   | 8 3/4"         |
| WOEX-12      | 7/8"                | .820"                  | 1.075"        | 1.515"   | 10 1/2"        |
| WOEX-13      | 1"                  | .920"                  | 1.165"        | 1.624"   | 10 3/4"        |
| WOEX-14      | 1 1/8"              | .970"                  | 1.343"        | 1.876"   | 11 1/2"        |
| WOEX-15      | 1 1/4"              | 1.010"                 | 1.443"        | 1.995"   | 11 3/4"        |

**T**HIS series has the advantage of the dual type of opening combined with longer handle leverage for pulling nuts up tight. The Boxocket end on both long and short handled combination wrenches is set at a 15° angle from the handle in order to give handle and finger clearance from obstructions and yet give a direct handle leverage on tough jobs.

## Dwarf Boxocket Wrenches



**A** POPULAR type of wrench especially useful for nut turning in close quarters. Each end is offset as illustrated to clear obstructions and each wrench has two different sizes of wrench openings. These tools are fully chrome plated and polished.

| Stock Number | Whitworth Bolt Size | Nominal Wrench Opening | Head Thickness  | Head Diameter  | Overall Length |
|--------------|---------------------|------------------------|-----------------|----------------|----------------|
| WXS-8A9      | 3/8" & 1/2"         | .338" & .448"          | 1 1/2" & 1 1/2" | .490" & .620"  | 4 1/2"         |
| WXS-1011     | 1/2" & 5/8"         | .500" & .608"          | 1 1/2" & 1 1/2" | .760" & .890"  | 5 1/2"         |
| WXS-1112     | 5/8" & 3/4"         | .608" & .710"          | 1 1/2" & 1 1/2" | .850" & 1.000" | 6 1/2"         |
| WXS-1213     | 3/4" & 7/8"         | .710" & .820"          | 1 1/2" & 1 1/2" | .960" & 1.125" | 6 3/4"         |



## 15° Angle Boxocket Wrenches

| Stock Number | Whitworth Bolt Size | Nominal Wrench Opening | Head Thickness  | Head Diameter   | Overall Length |
|--------------|---------------------|------------------------|-----------------|-----------------|----------------|
| WXD-8A9      | 3/8" & 1/2"         | .338" & .448"          | 1 1/2" & 1 1/2" | .550" & .650"   | 8 1/2"         |
| WXD-910      | 1/2" & 5/8"         | .448" & .500"          | 1 1/2" & 1 1/2" | .650" & .800"   | 9"             |
| WXD-1011     | 5/8" & 3/4"         | .500" & .608"          | 1 1/2" & 1 1/2" | .800" & .895"   | 9 1/2"         |
| WXD-1112     | 3/4" & 7/8"         | .608" & .710"          | 1 1/2" & 1 1/2" | .895" & 1.050"  | 10 1/2"        |
| WXD-1213     | 7/8" & 1"           | .710" & .820"          | 1 1/2" & 1 1/2" | 1.050" & 1.158" | 11"            |
| WXD-1314     | 1" & 1 1/8"         | .820" & .920"          | 1 1/2" & 1 1/2" | 1.200" & 1.324" | 12"            |
| WXD-1415     | 1 1/8" & 1 1/4"     | .920" & 1.010"         | 1 1/2" & 1 1/2" | 1.324" & 1.403" | 13"            |
| WXD-1516     | 1 1/4" & 1 3/8"     | 1.010" & 1.100"        | 1 1/2" & 1 1/2" | 1.403" & 1.560" | 14"            |
| WXD-1618     | 1 3/8" & 1 1/2"     | 1.100" & 1.200"        | 1 1/2" & 1 1/2" | 1.560" & 1.873" | 15"            |

**S**TRAIT handle Boxocket Wrenches with heads set at a 15° angle. The straight handle allows the wrench to be used in many corners where an offset would be awkward while the 15° angle head provides handle clearance from obstructions together with a long, direct pulling leverage.

## Double Offset Boxocket Wrenches



**T**HESSE tools embody all the advantages that Boxocket construction has to offer. Powerful leverage . . . Strength . . . Safety . . . Speed . . . Convenience. Each Boxocket of this type provides two different wrench sizes on one handle, and the complete series contains a full range of sizes taking Whitworth bolts 5/8" to 1".

Blue-Point Boxockets can't slip off the nut and can't spread . . . double branching permits their use where handle movement is very limited.

| Stock Number | Whitworth Bolt Size | Nominal Wrench Opening | Head Thickness  | Head Diameter   | Overall Length |
|--------------|---------------------|------------------------|-----------------|-----------------|----------------|
| WX-910       | 1/2" & 5/8"         | .448" & .500"          | 1 1/2" & 1 1/2" | .680" & .800"   | 8 1/2"         |
| WX-1011      | 5/8" & 3/4"         | .500" & .608"          | 1 1/2" & 1 1/2" | .800" & .895"   | 9 1/2"         |
| WX-1112      | 3/4" & 7/8"         | .608" & .710"          | 1 1/2" & 1 1/2" | .895" & 1.050"  | 10 1/2"        |
| WX-1213      | 7/8" & 1"           | .710" & .820"          | 1 1/2" & 1 1/2" | 1.050" & 1.158" | 10 3/4"        |
| WX-1314      | 1" & 1 1/8"         | .820" & .920"          | 1 1/2" & 1 1/2" | 1.200" & 1.324" | 11 3/4"        |
| WX-1415      | 1 1/8" & 1 1/4"     | .920" & 1.010"         | 1 1/2" & 1 1/2" | 1.324" & 1.403" | 12 3/4"        |
| WX-1516      | 1 1/4" & 1 3/8"     | 1.010" & 1.100"        | 1 1/2" & 1 1/2" | 1.403" & 1.560" | 14"            |
| WX-1618      | 1 3/8" & 1 1/2"     | 1.100" & 1.200"        | 1 1/2" & 1 1/2" | 1.560" & 1.873" | 14 1/2"        |
| WX-2022      | 1 1/2" & 1 3/4"     | 1.400" & 1.500"        | 1 1/2" & 1 1/2" | 2.093" & 2.312" | 16"            |

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